

Kingfisher Science Knowledge Organiser Term 1

Power It Up

Key Objectives

- To identify common appliances that run on electricity.
- To understand precautions for working safely with electricity.
 - To construct a simple series electrical circuit.
 - To identify and name basic parts of the circuit.
- To construct a simple series electrical circuit and recognise that a switch opens and closes a circuit. To associate this with whether a lamp lights in a simple series circuit.
- To recognise some common conductors and insulators and associate metals with being good conductors.

Key Vocabulary

Battery	A portable electricity supply.
Bulb	A part of a circuit that gives out light.
Cell	The scientific name for a battery.
Circuit	The path followed by an electric current. Electricity must flow in a circuit to do useful work.
Components	The items that make up a circuit.
Conductor	A material that transmits electricity in the wall and through wires.
Insulator	A material through which electricity cannot flow.
Mains	The electricity that comes from a socket
Switch	A component that turns a circuit on and off.
Wires	Used to connect components together.

Sticky Knowledge

1. Electricity can be generated by from power stations, wind, the sun, water and even animal pool!
2. Electricity is a type of energy that can build up in one place to flow to another.
3. A power station is a place where electricity is created and sent to our homes.
4. An electrical conductor allows electricity to flow through it. Most metals conduct electricity. Many electrical wires are made of copper.
5. An insulator does not allow electricity to pass through. Rubber is an example of a good insulator.

